

## ENGINEERING FIELD HANDBOOK - CHAPTER 2

### TABLE OF CONTENTS

	<u>PAGE</u>
- Introduction	2-1
- Factors Affecting Surface Runoff	2-2 thru 2-3
- Runoff	2-4
- Time of Concentration	2-5
- Peak Discharge	2-6
- Flow Length for Natural Watershed	N2-5(1)
- Pond & Swamp Adj. Factor	N2-6(1)
- Limitations	2-7
- Estimating Weighted CN (Example 2-1)	2-8
- Estimating Peak Discharge (Example 2-2)	2-9
- Example 2.2 (Time of Concentration and Peak Discharge)	2-10
- Exhibit 2-I (DON'T USE)	2-11
- Exhibit 2-IA (DON'T USE)	2-12
- Exhibit 2-II	2-13
- Exhibit 2-III (DON'T USE)	2-14
- PA 24-Hour Rainfall Data	2-14.1 thru 2-14.3
- Approx. Geog. Boundaries for SCS Rainfall Distributions	2-15
- Precipitation Values for Eastern U.S., Alaska, Hawaii, Puerto Rico and the Virgin Islands	2-16 thru 2-39
- Figure 2-26 (Solution for Runoff Equation)	2-40
- Figure 2-27 (Time of Concentration Nomograph)	2-41
- Hydrologic Soil Groups for U.S.	2-42
- PA Hydrologic Soil Groups	2-42.1 thru 2-42.2
- Hydrologic Soil Groups for U.S.	2-43 thru 2-83
- Table 2-2 (Runoff Depth for Selected CN's)	2-84



- Table 2-2A (Runoff Depth for CN 60-98)	N2-84(1) thru N2-84(13)
- Runoff Curve Numbers	2-85 thru 2-88
- Runoff CN for Porous Pavement and Surface Mined Areas	N2-88(1)
- Ia Values	2-89
- Worksheet 1: Runoff Curve Number	2-90
- Worksheet 2: Time of Concentration and Peak Discharge	2-91